

Notice of Allowability

Application No.

10/060,780

Examiner

Yin-Chen Shaw

Applicant(s)

COSSEL ET AL.

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/21/2006.
2. ☒ The allowed claim(s) is/are 1-3, 5-10, 12-18 and 20-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 02/02/2007.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/ or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. D'Aurelio, Michael on February 02, 2007. During the telephone conference, Mr. D'Aurelio has agreed and authorized the examiner to amend Claims 1, 5-7, 9, 12-14, 16-18, and 20-23.

Claims

3. Replacing Claims 1, 5-7, 9, 12-14, 16-18, and 20-23 as follows:

- a. Claim 1:

A system for authentication, comprising:

a processor circuit having a processor and a memory; and

an authentication system stored in the memory and executable by the processor, the authentication system comprising:

a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task;

an authentication manager that requests each of the authentication agents

to authenticate an unauthenticated user parameter until all of the authentication agents have been requested to authenticate the unauthenticated user parameter and the authenticated user parameter is authenticated by at least one of the authentication agents, unless one of the authentication agents fails to authenticate the unauthenticated user parameter;

wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents; and

wherein each of the authentication agents is configured to transmit a valid response that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

b. Claim 5:

A system for authentication, comprising:

a processor circuit having a processor and a memory; and

an authentication system stored in the memory and executable by the processor, the authentication system comprising:

a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one

authentication task, wherein a parameter type associated with each of the authentication agents;

an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents; and

wherein each of the authentication agents authenticates the unauthenticated user parameter when the unauthenticated user parameter is of the parameter type associated with the respective authentication agent; and

wherein:

each of the authentication agents transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter;

each of the authentication agents transmits a valid response to the authentication manager upon a successful authentication of the unauthenticated user parameter; and

each of the authentication agents transmits a valid response to the authentication manager that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not

configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

c. Claim 6:

The system of claim 1, wherein:

each of the authentication agents transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and

each of the authentication agents transmits a valid response to the authentication manager when the unauthenticated user parameter is successfully authenticated.

d. Claim 7:

A system for authentication, comprising:

a processor circuit having a processor and a memory; and

an authentication system stored in the memory and executable by the processor, the authentication system comprising:

a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task;

an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents;

wherein, upon startup, the authentication manager is unaware of how many of the authentication agents exist in association with the authentication system and the authentication manager discovers the authentication agents; and

wherein each of the authentication agents is configured to transmit a valid response that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

e. Claim 9:

An authentication method, comprising:

executing a plurality of authentication agents in a computer system, each of the authentication agents being configured to perform at least one authentication task; and

sequentially requesting each of the authentication agents to authenticate an unauthenticated user parameter input into the computer system until all of the authentication agents have been requested to authenticate the unauthenticated user parameter and the authenticated user parameter is authenticated by at least one of the authentication agents, unless one of the authentication agents fails to authenticate the unauthenticated user parameter, wherein the unauthenticated user parameter that all of the

authentication agents are requested to authenticate is identical for each of the authentication agents; and
generating a valid response in at least one of the authentication agents that is sent to the authentication manager that indicates to the authentication manager that the at least one of the authentication agents has authenticated the unauthenticated user parameter even though the at least one of the authentication agents is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

f. Claim 12:

An authentication method, comprising:

executing a plurality of authentication agents in a computer system, each of the authentication agents being configured to perform at least one authentication task;

executing an authentication manager in the computer system to sequentially request each of the authentication agents to authenticate an unauthenticated user parameter input into the computer system, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents;

transmitting an invalid response from at least one of the authentication agents to the authentication manager upon a failure to authenticate a

respective user parameter;

transmitting a valid response from at least one of the authentication agents to the authentication manager upon a successful authentication of the unauthenticated user parameter; and

transmitting the valid response from at least one of the authentication agents to the authentication manager that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

g. Claim 13:

The authentication method of claim 9, further comprising:

transmitting an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and

transmitting a valid response to the authentication manager when the unauthenticated user parameter is successfully authenticated.

h. Claim 14:

An authentication method, comprising:

executing a plurality of authentication agents in a computer system, each of the authentication agents being configured to perform at least one authentication task;

executing an authentication manager in the computer system, wherein the

authentication manager is unaware of how many of the authentication agents exist when the authentication manager is first executed;
discovering the authentication agents with the authentication manager upon execution of the authentication manager;
employing the authentication manager to sequentially request each of the authentication agents to authenticate an unauthenticated user parameter input into the computer system, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents; and
obtaining a response from each of the authentication agents indicating whether the unauthenticated user parameter has been authenticated, wherein each of the authentication agents is configured to generate a valid response that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

i. Claim 16:

A computer program embodied on a computer readable storage medium and executable by a computer system for performing authentication, comprising:

code that embodies a plurality of authentication agents, each of the

authentication agents authenticating at least one user parameter by performing at least one authentication task;

code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter until all of the authentication agents have been requested to authenticate the unauthenticated user parameter and the authenticated user parameter is authenticated by at least one of the authentication agents, unless one of the authentication agents fails to authenticate the unauthenticated user parameter, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents; and

wherein each of the authentication agents is configured to transmit a valid response that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

j. Claim 17:

The computer program embodied on a computer readable storage medium and executable by the computer system of claim 16, wherein the authentication manager further comprises code that waits for a response

from each of the authentication agents, each response indicating whether the unauthenticated user parameter has been authenticated.

k. Claim 18:

The computer program embodied on a computer readable storage medium and executable by the computer system of claim 16, wherein at least one of the authentication agents further comprises code that calls upon an external authentication service to authenticate the unauthenticated user parameter.

l. Claim 20:

A computer program embodied on a computer readable storage medium and executable by a computer system for performing authentication, comprising:

code that embodies a number of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task;

code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents; and

wherein each of the authentication agents further comprises:

code that transmits an invalid response to the authentication manager

upon a failure to authenticate the unauthenticated user parameter;
code that transmits a valid response to the authentication manager upon a successful authentication of the unauthenticated user parameter; and
code that transmits a valid response to the authentication manager that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

m. Claim 21:

The computer program embodied on a computer readable storage medium and executable by the computer system of claim 16, wherein each of the authentication agents further comprise:

code that transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and
code that transmits a valid response to the authentication manager when the unauthenticated user parameter is successfully authenticated.

n. Claim 22:

A computer program embodied on a computer readable storage medium and executable by a computer system for performing authentication, comprising:

code that embodies a number of authentication agents, each of the

authentication agents authenticating at least one user parameter by performing at least one authentication task;

code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter, wherein the unauthenticated user parameter that all of the authentication agents are requested to authenticate is identical for each of the authentication agents;

wherein the authentication manager further comprises code that discovers the authentication agents upon an initial execution of the authentication manager, the authentication manager being unaware at the time of initial execution of how many of the authentication agents exist that may be requested by the authentication manager to authenticate the unauthenticated user parameter; and wherein each of the authentication agents further comprises code that generates a valid response that indicates to the authentication manager that the respective authentication agent has authenticated the unauthenticated user parameter even though the respective authentication agent is not configured to perform a respective authentication task that is necessary to authenticate the unauthenticated user parameter.

o. Claim 23:

The computer program embodied on a computer readable storage medium and executable by the computer system of claim 22, wherein the

authentication manager further comprises code that generates a lookup table listing each of the authentication agents after initial execution after the authentication agents are discovered.

Allowable Subject Matter

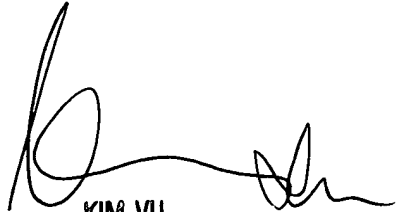
4. Claims 1-3, 5-10, 12-18, and 20-23 are allowed.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yin-Chen Shaw whose telephone number is 571-272-8593. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Yen Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

YCS

Feb. 02, 2007


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